

BayRS Version 14.20

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600 Technology Park Drive  
Billerica, MA 01821-4130

# **Release Notes for Site Manager Software Version 14.20**

**NORTEL**  
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Site Manager Version 14.20 is a software release that includes bug fixes and new features added since Site Manager Version 14.10. These release notes contain guidelines for using Site Manager Version 14.20.

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Technical Solutions Center	Telephone
EMEA	(33) (4) 92-966-968
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Asia Pacific	(61) (2) 9927-8800
China	(800) 810-5000

An Express Routing Code (ERC) is available for many Nortel Networks products and services. When you use an ERC, your call is routed to a technical support person who specializes in supporting that product or service. To locate an ERC for your product or service, go to the [www12.nortelnetworks.com/](http://www12.nortelnetworks.com/) URL and click ERC at the bottom of the page.



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# Release Notes for Site Manager Software Version 14.20

These release notes include information about the following topics:

Topic	Page
Site Manager and BayRS™ Compatibility	1
Site Manager System Requirements	2
General Guidelines for Version 14.20	5

## Site Manager and BayRS™ Compatibility

Starting with BayRS Version 14.00, the Site Manager software version number matches that of BayRS. For example, the version of Site Manager that ships with BayRS Version 14.20 is Site Manager Version 14.20. We have made this change to help you align versions of Site Manager with versions of BayRS.

Site Manager Version 14.20 supports two previous BayRS major releases:  
BayRS Version 12.x and BayRS Version 13.x.

## Site Manager System Requirements

See the section that applies to your PC or UNIX workstation.

### PC Requirements

Site Manager for the PC requires the following hardware and software:

- 486 PC (Pentium® recommended)
- Microsoft® Windows® 95 (32-bit), Windows NT® Version 4.0 (32-bit), or Windows 98 (32-bit)
- Microsoft TCP/IP protocol stack provided with Windows and a compatible network adapter and driver
- 16 MB of RAM (minimum)
- 90 MB of free disk space
- CD-ROM drive
- VGA monitor (SuperVGA monitor recommended)



**Caution:** Read the following instructions before upgrading to Windows 95.

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If you purchased a computer with Windows 95 or 98 and have a network adapter installed, most likely you have the correct TCP/IP protocol stack, network adapter, and driver. Proceed to “Testing TCP/IP” in Chapter 8 of *Quick-Starting Routers*.

If you need to upgrade from Windows 3.1 to Windows 95 or 98, first uninstall any existing 16-bit TCP/IP stack, such as Distinct TCP/IP Run Time. Otherwise, Windows 95 or 98 will install the existing stack instead of the Microsoft TCP/IP protocol stack.

If you already upgraded from Windows 3.1 to Windows 95 or 98, and the upgrade kept an existing 16-bit TCP/IP stack, such as Distinct TCP/IP Run Time, you must uninstall the 16-bit TCP/IP stack before adding the Microsoft TCP/IP protocol stack.

To uninstall a 16-bit TCP/IP stack, see the TCP/IP provider's documentation and support for help in removing the stack's path statements, services file, and winsock.dll files dated prior to July 11, 1995 (the date of the winsock.dll file installed by Windows 95 or 98).

To add or update a protocol, network adapter, or driver, see the appropriate documentation and support from Microsoft and the adapter manufacturer. You add protocols and driver updates from the Network option of the Control Panel. You add new network adapters and their drivers from the Add New Hardware option of the Control Panel.

Windows 95 or 98 attempts to match a driver to the network adapter installed on your computer. If Windows 95 or 98 cannot find a compatible driver, you must update the driver. Contact the adapter manufacturer for the latest drivers. Microsoft and other Windows 95 or 98 Web sites might also have updated drivers.

See the Resource Kit that came with your version of Windows for additional technical information about these issues. A copy of this guide is available from Microsoft Press.

## IBM/AIX Requirements

To run Site Manager, your IBM workstation requires the following hardware and software:

- Supported workstations:
  - IBM RS/6000 340, 370
  - PowerPC
- Supported operating system: IBM AIX Versions 4.1 and 4.2
- Window environments:
  - CDE 1.0.1
  - AIX Motif 1.2
- 32 MB of RAM (64 MB recommended)
- 140 MB of disk space
- 32 MB of swap space (64 MB recommended; with NetView for AIX, 96 MB of swap space is required)

- Network adapter appropriate for your network
- CD-ROM drive

## HP 9000 Requirements

To run Site Manager, your HP 9000 requires the following hardware and software:

- Supported workstations: HP 9000 Series 700 or 800
- Supported operating system: HP-UX 10.10 and 10.20, including the complete services (network services) directory
- Window environment: CDE 1.0.1
- 32 MB of RAM
- 95 MB of disk space
- 32 MB of swap space (64 MB recommended)
- Network adapter appropriate for your network
- CD-ROM drive

## SPARCstation Requirements

To run Site Manager, your SPARCstation requires the following hardware and software:

- Supported workstations:
  - SPARCstations 10 or 20
  - UltraSPARC
- Supported operating systems:
  - Solaris 2.5.1, and 2.6



**Note:** Site Manager Version 14.20 does not include SunOS support.

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- Window environment:
  - CDE 1.0.1
  - OpenWindows 3.5
- 32 MB of RAM (64 MB recommended)
- 145 MB of disk space
- 32 MB of swap space
- Network adapter appropriate for your network
- CD-ROM drive

## Maximum Number of Well-Known Connections

Site Manager supports up to 500 well-known connections.



**Caution:** Do not add more than the maximum number of connections.

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## General Guidelines for Version 14.20

Follow these guidelines when you use Site Manager Version 14.20.

### Installing Site Manager on Windows NT

The Windows NT platform supports Site Manager Version 14.20 software. The procedures for installing Site Manager on Windows NT and Windows 95 are essentially the same. However, if the TCP/IP services file is not in the default directory (C:\WINNT\system32\drivers\etc), the installation script prompts for the location of the directory.

For information about installing Site Manager software on Windows NT, see *Quick-Starting Routers or BayRS and Site Manager Software Installation*.

## Socket Binding Messages with UNIX Network Management Systems

UNIX network management systems such as OpenView or SunNet Manager might prevent Site Manager from binding to the SNMP sockets. As a result, the Trap Manager fails to operate and issues the following messages:

wftraps: : Unable to bind udp/snmp sockets. (C3501)

wftraps: : Permission to bind a socket is denied. Verify that the application is owned by “root”, and that the permissions have been configured to set the effective user id to that of the owner of the file when the file is run. If the permissions are correct, another process may have already bound to the udp ports. (C3501)

To solve this problem, close the network management system and its processes by terminating their process IDs, and then start Site Manager from the command line.

## DES-40 and DES-56 WEP No Longer Available

DES-40 WAN Encryption Option (WEP) or DES-56 WEP are no longer available on any BayRS platform. However, BayRS will support backward compatibility with earlier versions of BayRS that are currently running WEP.

## SunOS 4.1.4 Support Discontinued for Site Manager

Site Manager Version 14.20 does not operate with SunOS, but will continue to work with Solaris and other supported operating systems.

## Hi/fn Compression

If you have purchased the Hi/fn Compression CD for BayRS 14.20, you must install the Hi/fn executable into the BayRS 14.20 router kernel using Image Builder. To install Hi/fn, follow the instructions in the CD insert.



**Note:** Hi/fn Compression is available on all platforms, *except* the Passport 2430 and Passport 5430.

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## Events Manager Does Not Display Repeated Headers

The Events Manager in Site Manager does not display the event message header more than once for consecutive events with identical headers. In other words, if the router issues five event messages in a row that have exactly the same header (except for Event Code), the Events Manager displays the header just once, then lists the five message under that header. This is intentional functionality, meant to save space on the screen display.

The value for the number of records that the Events Manager reports specifies the number of total records and therefore might be greater than the highest event number in the display box.

## X Resource File

We strongly recommend that you use the WFSM\_INSTALL script to install Site Manager Version 14.20 on UNIX systems. The script installs the X resource file, XSiteMgr, into the windowing directory. If you do not run the script successfully, Site Manager might not run correctly.

If you choose to install Site Manager manually, without running the WFSM\_INSTALL script, you must copy the XSiteMgr file from the Site Manager config directory to one of the following locations:

- \$HOME
- \$HOME/app-defaults
- /usr/x11/lib/app-defaults
- /usr/openwin/lib/app-defaults

If you are running Site Manager Version 14.20, and are also running earlier versions of Site Manager at the same time, you will see both the new XSiteMgr file and the previous version of the X resource file, XJam, in the windowing directory.

## Color Compatibility Issue

If you are running Site Manager Version 14.20 on the HP-UX 10.20 platform, you might not be able to see all of the values options for parameters, because the colors do not display correctly on the screen.

Make sure that you are using the X resource file XSiteMgr (see the preceding section, “X Resource File”). You must also set the environment variable XUSERFILESEARCHPATH to **/usr/lib/X11/app-defaults/%N**. For example, if you are using the C shell, enter the following command:

```
setenv XUSERFILESEARCHPATH /usr/lib/X11/app-defaults/%N
```

## Managing the Site Manager Image Size

This section identifies the executable files and drivers that you might safely remove using Image Builder to reduce your Site Manager image size. This section also lists the executable files that are essential to Site Manager and should never be removed. If you have any questions regarding the implications of removing any executable file, do not remove the file.

For more information about Image Builder, see Chapter 6, “Customizing Router Software Images,” in *Configuring and Managing Routers with Site Manager*.



**Note:** The image contains all executable files for the current router software. Most executable files have an extension of .exe. The exceptions are protocol files on the ATM Routing Engine (ARE) slots, which use the extension .ppc. The .ppc files are equivalent to .exe files. For example, instead of using ip.exe on an ARE slot, the router uses ip.ppc. The .ppb extension is associated with the FRE4 module.

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### Essential Executable Files - Do Not Remove

The following tables lists the executable files that are essential to the operation of Site Manager and should never be removed using Image Builder.

Essential Executable Files
arp.exe (.ppc)
debug.exe (.ppc)
ip.exe (.ppc)
lm.exe (.ppc)
pcap.exe (.ppc)
ping.exe (.ppc)

(continued)



<b>Essential Executable Files</b>
rarp.exe (.ppc)
run.exe (.ppc)
sh_csmac.exe (.ppc)
sh_fr.exe (.ppc)
sh_ip.exe (.ppc)
sh_snmp.exe (.ppc)
sh_sync.exe (.ppc)
sh_tcp.exe (.ppc)
sh_tftp.exe (.ppc)
tcp.exe (.ppc)

## Removable Drivers and the Affected Modules

The following tables lists the drivers that you can remove using Image Builder as long as you are not using the associated module that would be affected.

<b>Driver</b>	<b>Affected Module</b>
de100.exe	100M Ethernet Link Module
ds2180.exe	mk2180 Dual Sync Interface
ds2181.exe	mk2181 Dual Sync Interface
dsde2.exe	Dual Sync/Ethernet 2 Interface
dst.exe	Dual Sync Token Link Module
dtok.exe	Dual Token Ring Link Module
e1.exe	E1 Link Module
enet2.exe	Ethernet 2 Link Module
fddi.exe	FDDI Link Module
fmpb.exe	Quad Token Link Module
fsi.exe	FDDI SMT
hdwanlm.exe	Octal Sync Link Module
hfsi.exe	HSSI SMT
hssi.exe	HSSI Link Module

*(continued)*

Driver	Affected Module
hwcomp.exe	Hardware Compressor
hwf.exe	Hardware Filter
ilacc.exe	ILACC Ethernet Interface
lanle.exe	LANCE Ethernet Interface
mct1e1.exe	Multi-Channel T1E1 Link Module
munich.exe	Munich Multi-Channel T1E1 Interface
nsc_100m.exe	100M Ethernet
qenet.exe	Quad Ethernet Link Module
qsync.exe	Quad Sync Link Module
quicsync.exe	Quicc Sync Module
tms380.exe	TMS380 Token Ring Interface
gig_enet.ppb	Gigabit Ethernet Link Module
seeq_100m.ppb	100Mb Ethernet Line
sgig.ppb	Gigabit Ethernet Link Module
sqe100.ppb	4x100Mb Ethernet Link Module
atmalc.exe	ATM Link Module Line

## Removable Executable Files and the Affected Protocols/Applications

The following table lists the executable files that you can remove and the associated application that would be affected.

Executable	Affected Protocol/Module
hdlc.exe	PPP, wfStandard
igmp.exe (.ppc)	PIM, DVMRP, MOSPF
ike.exe (.ppc)	Internet Key Exchange for IPSec
ip6.exe (.ppc)	RIP6
lapb.exe (.ppc)	X.25, IPEX
dns.exe (.ppc)	DNS protocol
nat.exe (.ppc)	NAT protocol
nbase.exe (.ppc)	APPN/SDLC Support

*(continued)*

Executable	Affected Protocol/Module
mct1cop.exe	MCT1, MCE1
hdwancop.exe	Hardware compression
ppp.exe (.ppc)	Dial Services, PPP
tag1q.exe (.ppc)	VLAN Tagging (802.1q)
treectl.exe (.ppc)	HTTP
wan.exe (.ppc)	ATM DXI, SMDS
rmonstat.exe (.ppb) (.ppc)	RMON Probe
vcct.exe (.ppb) (.ppc)	DLSw, APPN
llc.exe (.ppb) (.ppc)	DLSw, APPN
sdlc.exe (.ppc)	DLSw, APPN
X.25.exe (.ppc)	IPEX, X.25
atm_le.exe (.ppc)	ATM (Lane)
atmsig.exe (.ppc)	ATM (UNI Signaling)
copsc.exe (.ppc)	COPS
crm.exe (.ppb) (.ppc)	RSVP, QOSPF
raesa.exe (.ppc)	RMON
atmalcop.exe	ATM

